

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/757,041

DATE: 03/22/2001  
TIME: 23:59:51

INPUT SET: S36561.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Reed, John C.  
6 Sato, Takaaki  
7  
8 (ii) TITLE OF INVENTION: CD40 Associated Proteins  
9  
10 (iii) NUMBER OF SEQUENCES: 17  
11  
12 (iv) CORRESPONDENCE ADDRESS:  
13 (A) ADDRESSEE: Campbell and Flores  
14 (B) STREET: 4370 La Jolla Village Drive, Suite 700  
15 (C) CITY: San Diego  
16 (D) STATE: California  
17 (E) COUNTRY: USA  
18 (F) ZIP: 92122  
19  
20 (v) COMPUTER READABLE FORM:  
21 (A) MEDIUM TYPE: Floppy disk  
22 (B) COMPUTER: IBM PC compatible  
23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
25  
26 (vi) CURRENT APPLICATION DATA:  
27 (A) APPLICATION NUMBER: 09/757,041  
28 (B) FILING DATE:  
29 (C) CLASSIFICATION:  
30  
31 (vii) PRIOR APPLICATION DATA:  
32 (A) APPLICATION NUMBER: 08/349,357  
33 (B) FILING DATE:  
34  
35  
36  
37 (viii) ATTORNEY/AGENT INFORMATION:  
38 (A) NAME: Campbell, Cathryn A.  
39 (B) REGISTRATION NUMBER: 31,815  
40 (C) REFERENCE/DOCKET NUMBER: P-LJ 1203  
41  
42 (ix) TELECOMMUNICATION INFORMATION:  
43 (A) TELEPHONE: (619) 535-9001  
44 (B) TELEFAX: (619) 535-8949  
45  
46

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47 (2) INFORMATION FOR SEQ ID NO:1:

48

49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 2240 base pairs

51 (B) TYPE: nucleic acid

52 (C) STRANDEDNESS: single

53 (D) TOPOLOGY: linear

54

55

56 (ix) FEATURE:

57 (A) NAME/KEY: CDS

58 (B) LOCATION: 137..1766

59

60

61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

62

63 AGAAGTGATG CCACTTGGTT AAGGTCCCAG AGCAGGTCAG AATCAGACCT AGGATCAGAA 60

64

65 ACCTGGCTCC TGGCTCCTGG CTCCTACTC TTCTAAGGAT CGCTGTCCTG ACAGAAGAGA 120

66

67 ACTCCTCTTT CCTAAA ATG GAG TCG AGT AAA AAG ATG GAC TCT CCT GGC 169

68 Met Glu Ser Ser Lys Lys Met Asp Ser Pro Gly

69 1 5 10

70

71 GCG CTG CAG ACT AAC CCG CCG CTA AAG CTG CAC ACT GAC CGC AGT GCT 217

72 Ala Leu Gln Thr Asn Pro Pro Leu Lys Leu His Thr Asp Arg Ser Ala

73 15 20 25

74

75 GGG ACG CCA GTT TTT GTC CCT GAA CAA GGA GGT TAC AAG GAA AAG TTT 265

76 Gly Thr Pro Val Phe Val Pro Glu Gln Gly Gly Tyr Lys Glu Lys Phe

77 30 35 40

78

79 GTG AAG ACC GTG GAG GAC AAG TAC AAG TGT GAG AAG TGC CAC CTG GTG 313

80 Val Lys Thr Val Glu Asp Lys Tyr Lys Cys Glu Lys Cys His Leu Val

81 45 50 55

82

83 CTG TGC AGC CCG AAG CAG ACC GAG TGT GGG CAC CGC TCC TGC GAG AGC 361

84 Leu Cys Ser Pro Lys Gln Thr Glu Cys Gly His Arg Ser Cys Glu Ser

85 60 65 70 75

86

87 TGC ATG GCG GCC CTG CTG AGC TCT TCA AGT CCA AAA TGT ACA GCG TGT 409

88 Cys Met Ala Ala Leu Leu Ser Ser Ser Pro Lys Cys Thr Ala Cys

89 80 85 90

90

91 CAA GAG AGC ATC GTT AAA GAT AAG GTG TTT AAG GAT AAT TGC TGC AAG 457

92 Gln Glu Ser Ile Val Lys Asp Lys Val Phe Lys Asp Asn Cys Cys Lys

93 95 100 105

94

95 AGA GAA ATT CTG GCT CTT CAG ATC TAT TGT CGG AAT GAA AGC AGA GGT 505

96 Arg Glu Ile Leu Ala Leu Gln Ile Tyr Cys Arg Asn Glu Ser Arg Gly

97 110 115 120

98

99 TGT GCA GAG CAG TTA ACG CTG GGA CAT CTG CTG GTG CAT TTA AAA AAT 553

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100	Cys	Ala	Glu	Gln	Leu	Thr	Leu	Gly	His	Leu	Leu	Val	His	Leu	Lys	Asn	
101		125					130					135					
102																	
103	GAT	TGC	CAT	TTT	GAA	GAA	CTT	CCA	TGT	GTG	CGT	CCT	GAC	TGC	AAA	GAA	601
104	Asp	Cys	His	Phe	Glu	Glu	Leu	Pro	Cys	Val	Arg	Pro	Asp	Cys	Lys	Glu	
105	140					145					150					155	
106																	
107	AAG	GTC	TTG	AGG	AAA	GAC	CTG	CGA	GAC	CAC	GTG	GAG	AAG	GCG	TGT	AAA	649
108	Lys	Val	Leu	Arg	Lys	Asp	Leu	Arg	Asp	His	Val	Glu	Lys	Ala	Cys	Lys	
109					160					165					170		
110																	
111	TAC	CGG	GAA	GCC	ACA	TGC	AGC	CAC	TGC	AAG	AGT	CAG	GTT	CCG	ATG	ATC	697
112	Tyr	Arg	Glu	Ala	Thr	Cys	Ser	His	Cys	Lys	Ser	Gln	Val	Pro	Met	Ile	
113				175					180					185			
114																	
115	GCG	CTG	CAG	AAA	CAC	GAA	GAC	ACC	GAC	TGT	CCC	TGC	GTG	GTG	GTG	TCC	745
116	Ala	Leu	Gln	Lys	His	Glu	Asp	Thr	Asp	Cys	Pro	Cys	Val	Val	Val	Ser	
117			190					195					200				
118																	
119	TGC	CCT	CAC	AAG	TGC	AGC	GTC	CAG	ACT	CTC	CTG	AGG	AGC	GAG	GGG	ACA	793
120	Cys	Pro	His	Lys	Cys	Ser	Val	Gln	Thr	Leu	Leu	Arg	Ser	Glu	Gly	Thr	
121		205					210					215					
122																	
123	AAC	CAG	CAG	ATC	AAG	GCC	CAC	GAG	GCC	AGC	TCC	GCC	GTG	CAG	CAC	GTC	841
124	Asn	Gln	Gln	Ile	Lys	Ala	His	Glu	Ala	Ser	Ser	Ala	Val	Gln	His	Val	
125	220					225					230					235	
126																	
127	AAC	CTG	CTG	AAG	GAG	TGG	AGC	AAC	TCG	CTC	GAA	AAG	AAG	GTT	TCC	TTG	889
128	Asn	Leu	Leu	Lys	Glu	Trp	Ser	Asn	Ser	Leu	Glu	Lys	Lys	Val	Ser	Leu	
129				240						245				250			
130																	
131	TTG	CAG	AAT	GAA	AGT	GTA	GAA	AAA	AAC	AAG	AGC	ATA	CAA	AGT	TTG	CAC	937
132	Leu	Gln	Asn	Glu	Ser	Val	Glu	Lys	Asn	Lys	Ser	Ile	Gln	Ser	Leu	His	
133				255					260					265			
134																	
135	AAT	CAG	ATA	TGT	AGC	TTT	GAA	ATT	GAA	ATT	GAG	AGA	CAA	AAG	GAA	ATG	985
136	Asn	Gln	Ile	Cys	Ser	Phe	Glu	Ile	Glu	Ile	Glu	Arg	Gln	Lys	Glu	Met	
137			270					275					280				
138																	
139	CTT	CGA	AAT	AAT	GAA	TCC	AAA	ATC	CTT	CAT	TTA	CAG	CGA	GTG	ATA	GAC	1033
140	Leu	Arg	Asn	Asn	Glu	Ser	Lys	Ile	Leu	His	Leu	Gln	Arg	Val	Ile	Asp	
141		285					290					295					
142																	
143	AGC	CAA	GCA	GAG	AAA	CTG	AAG	GAG	CTT	GAC	AAG	GAG	ATC	CGG	TCC	TTC	1081
144	Ser	Gln	Ala	Glu	Lys	Leu	Lys	Glu	Leu	Asp	Lys	Glu	Ile	Arg	Ser	Phe	
145	300					305					310					315	
146																	
147	CGG	CAG	AAC	TGG	GAG	GAA	GCA	GAC	AGC	ATG	AAG	AGC	AGC	GTG	GAG	TCC	1129
148	Arg	Gln	Asn	Trp	Glu	Glu	Ala	Asp	Ser	Met	Lys	Ser	Ser	Val	Glu	Ser	
149					320					325					330		
150																	
151	CTC	CAG	AAC	CGC	GTG	ACC	GAG	CTG	GAG	AGC	GTG	GAC	AAG	AGC	GCG	GGG	1177
152	Leu	Gln	Asn	Arg	Val	Thr	Glu	Leu	Glu	Ser	Val	Asp	Lys	Ser	Ala	Gly	

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	335	340	345	
153				
154				
155	CAA GTG GCT CGG AAC ACA GGC CTG CTG GAG TCC CAG CTG AGC CGG CAT			1225
156	Gln Val Ala Arg Asn Thr Gly Leu Leu Glu Ser Gln Leu Ser Arg His			
157	350	355	360	
158				
159	GAC CAG ATG CTG AGT GTG CAC GAC ATC CGC CTA GCC GAC ATG GAC CTG			1273
160	Asp Gln Met Leu Ser Val His Asp Ile Arg Leu Ala Asp Met Asp Leu			
161	365	370	375	
162				
163	CGC TTC CAG GTC CTG GAG ACC GCC AGC TAC AAT GGA GTG CTC ATC TGG			1321
164	Arg Phe Gln Val Leu Glu Thr Ala Ser Tyr Asn Gly Val Leu Ile Trp			
165	380	385	390	395
166				
167	AAG ATT CGC GAC TAC AAG CGG CGG AAG CAG GAG GCC GTC ATG GGG AAG			1369
168	Lys Ile Arg Asp Tyr Lys Arg Arg Lys Gln Glu Ala Val Met Gly Lys			
169	400	405	410	
170				
171	ACC CTG TCC CTT TAC AGC CAG CCT TTC TAC ACT GGT TAC TTT GGC TAT			1417
172	Thr Leu Ser Leu Tyr Ser Gln Pro Phe Tyr Thr Gly Tyr Phe Gly Tyr			
173	415	420	425	
174				
175	AAG ATG TGT GCC AGG GTC TAC CTG AAC GGG GAC GGG ATG GGG AAG GGG			1465
176	Lys Met Cys Ala Arg Val Tyr Leu Asn Gly Asp Gly Met Gly Lys Gly			
177	430	435	440	
178				
179	ACG CAC TTG TCG CTG TTT TTT GTC ATC ATG CGT GGA GAA TAT GAT GCC			1513
180	Thr His Leu Ser Leu Phe Phe Val Ile Met Arg Gly Glu Tyr Asp Ala			
181	445	450	455	
182				
183	CTG CTT CCT TGG CCG TTT AAG CAG AAA GTG ACA CTC ATG CTG ATG GAT			1561
184	Leu Leu Pro Trp Pro Phe Lys Gln Lys Val Thr Leu Met Leu Met Asp			
185	460	465	470	475
186				
187	CAG GGG TCC TCT CGA CGT CAT TTG GGA GAT GCA TTC AAG CCC GAC CCC			1609
188	Gln Gly Ser Ser Arg Arg His Leu Gly Asp Ala Phe Lys Pro Asp Pro			
189	480	485	490	
190				
191	AAC AGC AGC AGC TTC AAG AAG CCC ACT GGA GAG ATG AAT ATC GCC TCT			1657
192	Asn Ser Ser Ser Phe Lys Lys Pro Thr Gly Glu Met Asn Ile Ala Ser			
193	495	500	505	
194				
195	GGC TGC CCA GTC TTT GTG GCC CAA ACT GTT CTA GAA AAT GGG ACA TAT			1705
196	Gly Cys Pro Val Phe Val Ala Gln Thr Val Leu Glu Asn Gly Thr Tyr			
197	510	515	520	
198				
199	ATT AAA GAT GAT ACA ATT TTT ATT AAA GTC ATA GTG GAT ACT TCG GAT			1753
200	Ile Lys Asp Asp Thr Ile Phe Ile Lys Val Ile Val Asp Thr Ser Asp			
201	525	530	535	
202				
203	CTG CCC GAT CCC T GATAAGTAGC TGGGGAGGTG GATTTAGCAG AAGGCAACTC			1806
204	Leu Pro Asp Pro			
205	540			

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206  
207 CTCTGGGGGA TTTGAACCGG TCTGTCTTCA CTGAGGTCCT CGCGCTCAGA AAAGGACCTT 1866  
208  
209 GTGAGACGGA GGAAGCGGCA GAAGGCGGAC GCGTGCCGGC GGGAGGAGCC ACGCGTGAGA 1926  
210  
211 CACCTGACAC GTTTTATAAT AGACTAGCCA CACTTCACTC TGAAGAATTA TTTATCCTTC 1986  
212  
213 AACAAGCATA AATATTGCTG TCAGAGAAGG TTTTCATTTT CATTTTAAA GATCTAGTTA 2046  
214  
215 ATTAAGGTGG AAAACATATA TGCTAAACAA AAGAAACATG ATTTTCTTC CTAAACTTG 2106  
216  
217 AACACCAAAA AACACACACA CACACACACA CGTGGGGATA GCTGGACATG TCAGCATGTT 2166  
218  
219 AAGTAAAGG AGAATTTATG AAATAGTAAT GCAATTCTGA TATCTTCTTT CTAAAATTCA 2226  
220  
221 AGAGTGCAAT TTTG 2240  
222  
223

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 543 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

234  
235 Met Glu Ser Ser Lys Lys Met Asp Ser Pro Gly Ala Leu Gln Thr Asn  
236 1 5 10 15  
237  
238 Pro Pro Leu Lys Leu His Thr Asp Arg Ser Ala Gly Thr Pro Val Phe  
239 20 25 30  
240  
241 Val Pro Glu Gln Gly Gly Tyr Lys Glu Lys Phe Val Lys Thr Val Glu  
242 35 40 45  
243  
244 Asp Lys Tyr Lys Cys Glu Lys Cys His Leu Val Leu Cys Ser Pro Lys  
245 50 55 60  
246  
247 Gln Thr Glu Cys Gly His Arg Ser Cys Glu Ser Cys Met Ala Ala Leu  
248 65 70 75 80  
249  
250 Leu Ser Ser Ser Ser Pro Lys Cys Thr Ala Cys Gln Glu Ser Ile Val  
251 85 90 95  
252  
253 Lys Asp Lys Val Phe Lys Asp Asn Cys Cys Lys Arg Glu Ile Leu Ala  
254 100 105 110  
255  
256 Leu Gln Ile Tyr Cys Arg Asn Glu Ser Arg Gly Cys Ala Glu Gln Leu  
257 115 120 125  
258

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**SEQUENCE VERIFICATION REPORT**  
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Line

Error

Original Text